Page مراثب

07204

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RAW SEQUENCE LISTING DATE: 12/26/2001 PATENT APPLICATION: US/09/848,798 TIME: 15:52:19

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1 <110> APPLICANT: Siegel, Donald L.

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2 <120> TITLE OF INVENTION: Rh(D)-BINDING PROTEINS AND MAGNETICALLY ACTIVATED CELL
             SORTING METHOD FOR PRODUCTION THEREOF
      4 <130> FILE REFERENCE: 09596-42U2
      6 <140> CURRENT APPLICATION NUMBER: 09/848,798
      7 <141> CURRENT FILING DATE: 2001-05-04
     9 <150> PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/240,274
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     12 <150> PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/028,550
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     14 <160> NUMBER OF SEQ ID NOS: 224
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             Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
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             Ala Ala Thr Ala Tyr Asp Gly Lys Asn Lys Tyr Tyr Ala Asp Ser Val
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     31
             Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Phe
     33
                                                       75
             Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Phe Tyr Cys
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             Ala Arg Gly Gly Phe Tyr Tyr Asp Ser Ser Gly Tyr Tyr Gly Leu Arg
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Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val

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          Ser Val Ile Ser Tyr Asp Gly His His Lys Asn Tyr Ala Asp Ser Val
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 56
          Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Lys Thr Leu Tyr
 57
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| 104                    | Lys Gly                                 | Arg F                  | he Thr         |           | Ser    | Arg        | Asp        | Asn        |           | Lys  | Lys       | Thr   | Leu       |            |  |  |
|------------------------|---|------------------------|----------------|-----------|--------|------------|------------|------------|-----------|------|-----------|-------|-----------|------------|--|--|
| 105<br>106             | 65<br>Leu Glr                           | Met A                  |                | 70<br>Leu | Arg    | Pro        | Glu        | _          | 75<br>Thr | Ala  | Val       | Tyr   |           | 80<br>Cys  |  |  |
| 107                    | 315 35                                  |                        | 85             | C1        | 17.0 1 | m h        | 7 ~~       | 90         | 71.       | Com  | <b>71</b> | Dwo   | 95        | N an       |  |  |
| 108<br>109             | Ala Asr                                 |                        | irg Gly<br>.00 | GIU       | vaı    | Thr        | 105        | Arg        | Ата       | ser  | iie       | 110   | Pne       | ASP        |  |  |
| 110                    | Ile Trp                                 | _                      | In Gly         | Thr       | Met    |            | Thr        | Val        | Ser       | Ser  |           |       |           |            |  |  |
| 111                    | CEO TD                                  | 115                    |                |           |        | 120        |            |            |           |      |           |       |           |            |  |  |
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| 120                    | Glu Val                                 |                        | eu Leu         | Glu       | Ser    | Glv        | Glv        | Glv        | Va 1      | Va 1 | Gln       | Pro   | Glv       | Ara        |  |  |
| 121                    | 1                                       | . 0111 1               | 5              | 014       | 202    | 011        | 021        | 10         | ,         |      | 0         |       | 15        | 5          |  |  |
| 122                    | Ser Leu                                 | ı Arg I                |                | Cvs       | Ala    | Ala        | Ser        |            | Phe       | Ser  | Phe       | Ser   |           | Tvr        |  |  |
| 123                    |   | 5                      | 20             | -1-       |        |            | 25         | 1          |           |      |           | 30    |           | -1-        |  |  |
| 124                    | Gly Met                                 | His T                  |                | Arq       | Gln    | Ala        |            | Gly        | Lys       | Gly  | Leu       | Glu   | Trp       | Val        |  |  |
| 125                    | 1                                       | 35                     | -              | ,         |        | 40         |            | -          | 1         | _    | 45        |       | -         |            |  |  |
| 126                    | Ala Val                                 | . Ile S                | er Tyr         | Asp       | Gly    | Thr        | Asn        | Lys        | Tyr       | Phe  | Ala       | Asp   | Ser       | Val        |  |  |
| 127                    | 50                                      |                        | _              | _         | 55     |            |            | -          | -         | 60   |           | -     |           |            |  |  |
| 128                    | Lys Gly                                 | Arg P                  | he Thr         | Ile       | Ser    | Arg        | Asp        | Asn        | Ser       | Lys  | Lys       | Thr   | Leu       | Tyr        |  |  |
| 129                    | 65                                      |                        |                | 70        |        |            |            |            | 75        |      |           |       |           | 80         |  |  |
| 130                    | Leu Glr                                 | Met T                  | hr Ser         | Leu       | Arg    | Pro        | Glu        | Asp        | Thr       | Ala  | Val       | Tyr   | Phe       | Cys        |  |  |
| 131                    |   |                        | 85             |           |        |            |            | 90         |           |      |           |       | 95        |            |  |  |
| 132                    | Ala Asn                                 | Leu A                  | rg Gly         | Glu       | Val    | Thr        | Arg        | Arg        | Ala       | Ser  | Val       | Pro   | Leu       | Asp        |  |  |
| 133                    |   | 1                      | .00            |           |        |            | 105        |            |           |      |           | 110   |           |            |  |  |
| 134                    | Ile Trp                                 | Gly G                  | ln Gly         | Thr       | Met    | Val        | Thr        | Val        | Ser       | Ser  |           |       |           |            |  |  |
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| 144                    | Glu Val                                 | GIN L                  | eu Leu         | GIU       | ser    | стХ        | GTĀ        |            | Val       | Val  | GIN       | Pro   |           | Arg        |  |  |
| 145                    | I Com Tou                               | λ « T                  | C Com          | 0         | 71.    | 7.7.0      | Com        | 10         | Dho       | Com  | Dha       | C 0 m | 15        | Ш          |  |  |
| 146                    | Ser Leu                                 |                        |                | Cys       | Ата    | Ата        | 25         | GIY        | Pne       | ser  | Pne       |       | ser       | TYL        |  |  |
| 147<br>148             | Gly Met                                 |                        | 20<br>rp Val   | λνα       | Cln    | λla        |            | C117       | T vz c    | C117 | Tou       | 30    | m rrr     | Wa 1       |  |  |
| 149                    | gry mer                                 | 35                     | Th Agi         | мту       | GTII   | 40         | FIO        | ату        | пуэ       | GTÄ  | 45        | GIU   | ттЪ       | ναΙ        |  |  |
| 150                    | Ala Val                                 |                        | er Tur         | Aen       | Glv    |            | Δen        | Lve        | Tvr       | Dho  |           | Aen   | Ser       | Va 1       |  |  |
| 151                    | 50                                      |                        | ~ <u>1</u> 1   | p         | 55     | T 11T      | -1011      | -13        | -1-       | 60   | 4114      | p     | JUL       | <b>741</b> |  |  |
| 152                    | Lys Gly                                 |                        | he Thr         | Ile       |        | Ara        | Asp        | Asn        | Ser       |      | Lvs       | Thr   | Len       | Tvr        |  |  |
| 153                    | 65                                      | 5 1                    |                | 70        |        | 7          |            |            | 75        | -1-  | -1-       |       |           | 80         |  |  |
| 154                    | Leu Gln                                 | Met. Т                 | hr Ser         |           | Ara    | Pro        | Glu        | Asp        |           | Ala  | Val       | Tvr   | Phe       |            |  |  |
|                        |   |                        |                |           | 5      |            |            |            | <b>-</b>  |      |           | —     |           | - 1 -      |  |  |

| 155        |       | 85                                      |             |       |            |       |             |        |      | 90   |      |      |             |      | 95    |     |                |
|------------|-------|---|-------------|-------|------------|-------|-------------|--------|------|------|------|------|-------------|------|-------|-----|----------------|
| 156        |       | Ala                                     | Asn         | Leu   | Arg        | Gly   | Glu         | Val    | Thr  | Arg  | Arg  | Ala  | Ser         | Val  | Pro   | Leu | Asp            |
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| 158        |       | Ile                                     | Trp         | Gly   | Gln        | Gly   | Thr         | Met    | Val  | Thr  | Val  | Ser  | Ser         |      |       |     |                |
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| 170        |       | Ser                                     | Leu         | Arg   |            | Ser   | Cys         | Ala    | Ala  |      | Gly  | Phe  | Ser         | Phe  |       | Ser | Tyr            |
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| 172        |       | Gly                                     | Met         | His   | Trp        | Va⊥   | Arg         | GIn    |      | Pro  | GLY  | Lys  | GLY         |      | Glu   | Trp | Val            |
| 173        |       | _                                       | 1           | 35    | _          | _     | _           | ~ 1    | 40   | •    | _    |      | <b></b>     | 45   | •     | ~   | **- 1          |
| 174        |       | Ser                                     |             | Ile   | Ser        | Tyr   | Asp         | _      | His  | Hls  | ьуs  | Asn  | _           | Ala  | Asp   | ser | vaı            |
| 175        |       | _                                       | 50          |       | <b>5</b> 1 | ml    | <b>~1</b> . | 55     | 3    | 3    |      | 0    | 60          | T    | m 1   | T   | W              |
| 176        |       | _                                       | GTĀ         | Arg   | Pne        | Tnr   |             | ser    | Arg  | Asp  | Asn  |      | гаг         | Lys  | Thr   | Leu | 80             |
| 177        |       | 65                                      | <u>ما ہ</u> | Wot   | 7 an       | Com   | 70          | 7 ~ ~  | Dro  | C1., | N an | 75   | λΙο         | Wa I | Пттх  | TTT |                |
| 178        |       | ьeu                                     | GTII        | Met   | ASII       | 85    | Leu         | AIG    | PIO  | GIU  | 90   | TIIT | нта         | Val  | 1 7 1 | 95  | Cys            |
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| 181        |       | Ата                                     | ASII        | пец   | 100        | СТУ   | GIU         | Val    | 1111 | 105  | пту  | ліц  | SCI         | vai  | 110   | rne | пэр            |
| 182        |       | Tlo                                     | Trn         | Gly   |            | Glv   | Thr         | T.e.11 | Va1  |      | Va 1 | Ser  | Ser         |      | 110   |     |                |
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| 200        |       | Lys                                     | Gly         | Arg   | Phe        | Thr   |             | Ser    | Arg  | Asp  | Asn  |      | Lys         | Asn  | Thr   | Leu | $\mathtt{Tyr}$ |
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| 202        |       | Leu                                     | Gln         | Met   | Asn        |       | Leu         | Arg    | Ala  | Glu  |      | Thr  | Ala         | Val  | Tyr   |     | Cys            |
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